

ABSTRACT OF THE DISCLOSURE

A piezoelectric resonator uses a radial flexural mode vibration. In the piezoelectric resonator, an even number of at least four electrode layers and an odd number of at least three piezoelectric layers are alternately stacked. Among the three piezoelectric layers, at least two piezoelectric layers are polarized in a thickness direction. The four electrode layers are connected to one another so that, in at least one piezoelectric layer among the three piezoelectric layers, an electric field is generated in a direction that is identical to the polarization direction of the at least one piezoelectric layer, and in at least another piezoelectric layer among the three piezoelectric layers, an electric field is generated in a direction that is opposite to the polarization direction of the at least another piezoelectric layer. Among the three piezoelectric layers, at least one piezoelectric layer has a thickness that is different from each of the thicknesses of the other piezoelectric layers.

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